

Jeffrey E. Welch

Education

- B.S., University of North Carolina, Chapel Hill, NC; Zoology, 1982.
- Ph.D., University of North Carolina, Chapel Hill, NC; Cell Biology and Anatomy, 1988.

Professional Experience

- 1995-present: Research Biologist, EPA.

Research Interests

- Gene expression during spermatogenesis.
- Testicular synthesis of glutathione.
- Metabolism in germ cells and early embryos.

Professional Activities

- Participant, Assessment of CIIT report on MMT (methylcyclopentadienyl manganese tricarbonyl) as a fuel additive.
- Participant, Review of American Petroleum Institute submissions for reproductive toxicity of gasoline vapor and fuel additive.
- Reviewer, Assessment of ethyl tert-butyl ether, Integrated Risk Information System, EPA.
- Member, Safe Pesticides/Safe Products (SP2) Long Term Goal 1 Workgroup, EPA.

Invited Lectures/Symposia

- Neurotoxicology Division, NHEERL, EPA: SP22: A reproductive biomarker with implications for Parkinsonism. 2006.

Selected Publications

Welch JE, Barbee RR, Magyar PL, Bunch DO, O'Brien DA. 2006. Expression of the spermatogenic cell-specific glyceraldehyde 3-phosphate dehydrogenase (GAPDS) in rat testis. *Mol Reprod Dev.* 73:1052-60. [Abstract](#)

Wilson VS, Cardon MC, Thornton J, Korte JJ, Welch JE, Gray LE, Hartig PC. 2004. Cloning, expression and characterization of the androgen receptor and isolation of estrogen receptor alpha from the fathead minnow (*pimephales promelas*). *Environ Sci Technol.* 38:6314-21. [Abstract](#)

Klinefelter GR, Welch JE, Perreault SD, Moore HD, Zucker RM, Suarez JD, Roberts NL, Bobseine K, Jeffay S. 2002. Localization of the sperm protein SP-22 and inhibition of fertility *in vivo* and *in vitro*. J Androl. 23:48-63. [Abstract](#)